

Libby Asbestos Project, Operable Unit 1

Change / Modification Log

Item N	Drawing No.	Description	Approved Y / N	Date
001	C9	Approval for USACE to direct the installation of the SWPPP and modify the installation as needed without approval of the City of Libby.	Y	Verbal: 9/29/11 Written: 10/4/11
002	C4	Tree removal and relocation of rock detention basin	Y	10/4/2011
003	C4	Correction of Elevation Point 410, Cad Glitch	Y	10/12/2011
004	Sht D2, Detail D	Change to accommodate the storm water sumps which will be installed by the City. The removal contractor will excavate the locations (field determination) for the City's installation according to the City's available materials.	Y	10/12/2011
005	C6A	Relocate the sump from from the ENE, approximately 37' off of the NE Corner of the DTSAR building, in the new roadway to a field determined location, approximately SSW 10'.	Y	10/12/2011
006	Sht D2, Detail B	Change, the road sub-base materials from 6" of 3/4" minus crushed base course over 8" of 3" minus sub-base material, to 10" of 3/4" minus sub-base over at least 8" of 3" minus sub-base material.	Y	10/12/2011
007	Sht D1, Section 3	Parking areas sub-grade materials, the removal contractor will ensure a minimum thickness of 8" of 3/4" minus base course cap over the subgrade material that may be either 8" of 3/4" minus crushed or 3" minus fill sub-base for a total of 18" thickness.	Y	10/12/2011
008	Sht C4	Retain existing trees, large conifers, along the west boundary of Area 1. The trees were not shown on the plans. The parking area along the western perimeter of the site is to be adjusted to accommodate the trees.	Y	10/12/2011
009	n/a	Surveyor's elevation corrections.	Y	10/12/2011
010	n/a	Tree removal, remove cottonwood trees at SW corner of Area 1 due to visibly high vermiculite/tremolite.	Y	10/12/2011
011	Sht(s) C6, C6A & Sht D2, Detail B	Add shoulders at 2 location along new roadway.	pending	
012				
013				
014				
015				
016				
017				

OU1 Design Change and Modification Sheet: Change/Modification #1

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 9/29/11

Date Executed: 9/29/11

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

The City will allow USACE to implement the storm water management plan at USACE direction, so long as Best Management Practices are in place to ensure that no sediment migrates off of the disturbed areas during the remediation and removal activities. Changes to the Storm Water Management Plan will not require coordination with the City.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: Jeff Kibbel USACE Date: 10/4/11

City of Libby: Jim Hammond Date: 10/4/2011

acknowledged: CQC: [Signature] Date: 10/4/11

TQA: [Signature] Date: 10/4/11

OU1 Design Change and Modification Sheet: Change/Modification # 002

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 4SEPT2011 Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Between survey reference survey points 370 and 480 there are two trees which interfere with the site storm water detention basin located in this area. The smaller and sickly of the two trees is to be removed and the detention basin moved in a southerly direction along the flow line out of the root zone of the remaining tree.

The revised location of the detention basin will be documented by the project surveyors. And recorded on the red line drawings.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: [Signature] Date: 10/4/11

City of Libby: [Signature] Date: 10/4/2011

CQG: [Signature] Date: 10/4/11

TQA: [Signature] Date: 10/4/11

acknowledged

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OU1 Design Change and Modification Sheet: Change/Modification # 003

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 4SEPT2011

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Elevation point 410 (Sheet C4) was identified by the surveyors as being deeper than it should be. HFS requested a clarification from CDM Engineer, Karin Mainzhausen. Karin stated that the point in question must be "CAD" glitch and suggested that the point be disregarded and the WGM points for the TOB and the rock trench (Detention Basin) invert be used. Ms. Mainzhausen has provided a PDF with the WGM points. The communication from Ms. Mainzhausen and the referenced PDF have been attached to this document.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: _____

Date: 10/12/11

City of Libby: Jim Hammon

Date: 10/12/2011

CQC: _____

Date: 10/14/11

TQA: _____

Date: 10-13-11

acknowledged

John Steeber

From: Mainzhausen, Karin <mainzhausenk@cdm.com>
Sent: Wednesday, October 05, 2011 6:44 AM
To: Rob Burton; Raines, Nicholas; Glaser, Michael B.; Michael@valiint.com
Cc: Hubbard, Jeffrey W NWO (Jeffrey.W.Hubbard@usace.army.mil); survey@montanasky.net; John Steeber
Subject: RE: Elevation Point 410
Attachments: 110109GP Model (1).pdf

I looked at the WGM file and I suggest that the surveyors disregard point 410 and use the WGM points for the TOB and the Rock trench invert. I attached a pdf with their points. These points are FG and 1.5 ft have to be subtracted to get the subgrade surface. Jim Davis has these points from the WGM xml that I sent them. If you need the coordinates of each point, we can get them to you.

Thanks,
KM

From: Rob Burton [mailto:rburton@priworld.com]
Sent: Tuesday, October 04, 2011 3:31 PM
To: Mainzhausen, Karin; Raines, Nicholas
Cc: Hubbard, Jeffrey W NWO (Jeffrey.W.Hubbard@usace.army.mil); survey@montanasky.net; John Steeber
Subject: Elevation Point 410

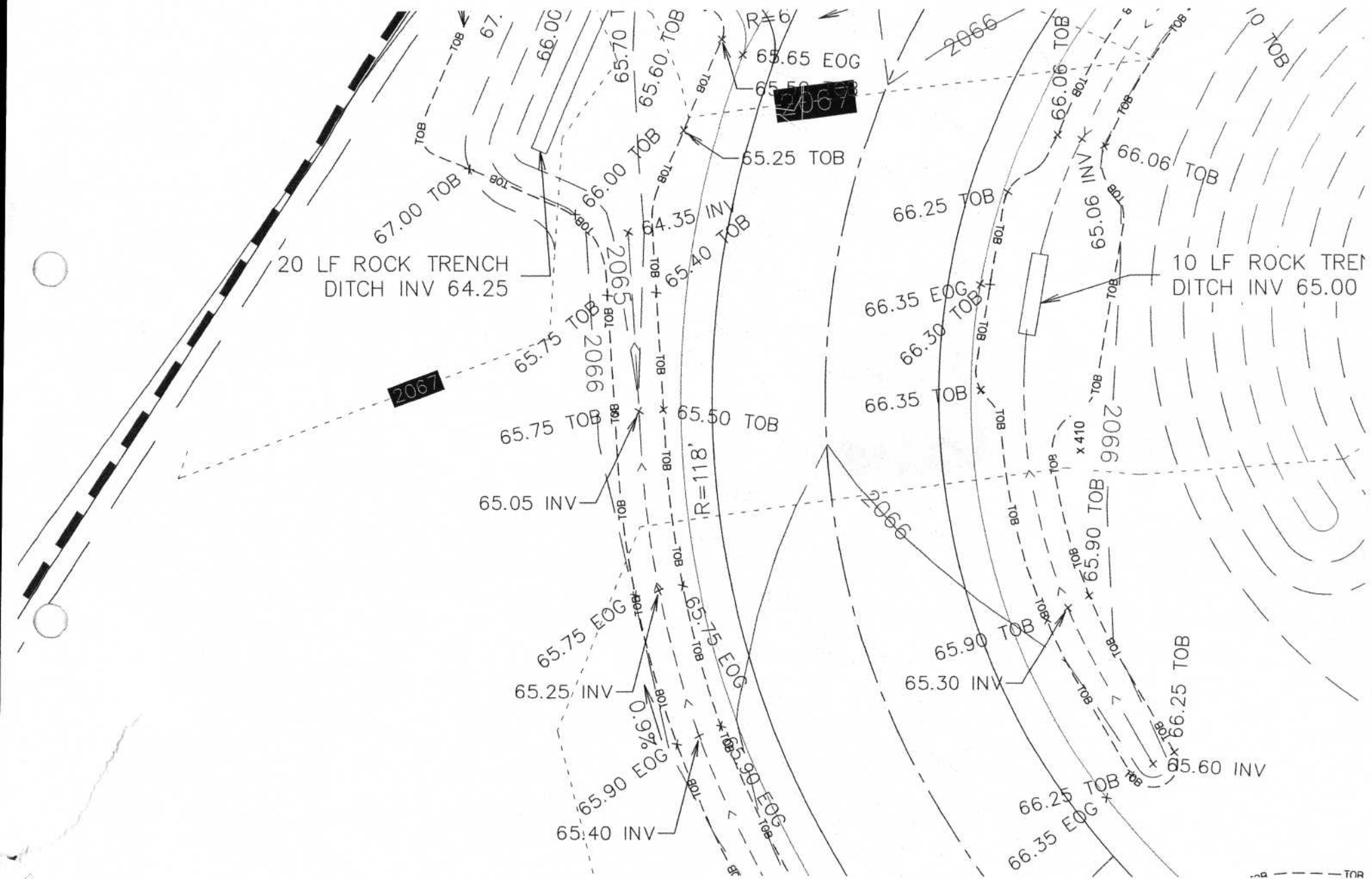
Karin,

The surveyors are requesting a clarification for the elevation associated with point 410. It appears that this point is deeper than what it should be.

Please look at the elevation data to see if there is an apparent issue.

Thanks,

Rob Burton
Project Manager, PRI
Office: (406) 293-3693
Cell: (801) 913-6595
www.priworld.com



OU1 Design Change and Modification Sheet: Change/Modification # 004

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

The design for the drainage sumps (Sheet D2, Detail D) adjacent to the DTSAR (Sheet, C6A) will be changed to accommodate the sumps that the city has available. The removal contractor will work with the city to excavate the holes for these sumps so that the material available to the city may be utilized. This will include one (1) sump that has a 6' tall x 4' in diameter barrel and a symmetrical precast cone that fits on top of the barrel, and one (1) sump that has no barrel and an eccentric precast cone. The overall depth of the excavation is to be determined in the field.

PER Concurrence w/ WGM Group. H 10/14/11

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: _____ Date: 10/12/11

City of Libby: Jim Hamman Date: 10/12/2011

CQC: _____ Date: 10/14/11

TQA: _____ Date: 10-13-11

acknowledged -

OU1 Design Change and Modification Sheet: Change/Modification # 005

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

The sump that is located approximately 37' ENE off of the NE corner of the DTSAR building (Sheet C6A) will be relocated. The current design places the sump adjacent to the road, and the drainage for the sump into the road itself. Per conversations with WGM, the Libby City representative, the USACE representative, the CDM representative, and the HFS representative, the location of the sump will be moved to the SSW approximately 10', maintaining the same distance from the corner of the DTSAR building. The exact location will be determined in the field and will be cleared with the Libby City representative prior to installation. Adjustments to the surrounding finish grade will be made in the field to ensure positive drainage toward the sump.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: _____ Date: 10/12/11

City of Libby: Jim Hamm Date: 10/12/2011

acknowledged CQC: _____ Date: 10/14/11

TQA: _____ Date: 10-13-11

OU1 Design Change and Modification Sheet: Change/Modification # 006

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Per conversations with representatives from WGM, Libby City, USACE, CDM and HFS, the thickness of the road sub-grade materials as shown in Detail B on sheet D2 will change from 6" of ¾" minus crushed base course and 8" of 3" minus sub-base material to 10" of ¾" minus crush base course and at least 8" of 3" minus sub-base material.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: _____ Date: 10/12/11
 City of Libby: Jim Hammer Date: 10/12/2011
 CQC: [Signature] Date: 10/14/11
 TQA: [Signature] Date: 10-13-11

acknowledged

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OU1 Design Change and Modification Sheet: Change/Modification # 007

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Per conversation with representatives of WGM, Libby City, USACE, CDM and HFS, an allowance will be made on the sub-grade material for the parking areas (see Section 3 on Sheet D1). The contractor will ensure that a minimum thickness of 8" of $\frac{3}{4}$ " minus crushed base course will cap the parking areas. The remainder of the sub-grade material below that 8" may be either $\frac{3}{4}$ " minus crushed base course or 3" minus fill sub-base for a total parking area thickness of 18".

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: _____ Date: 10/12/11

City of Libby: Jim Hammer Date: 10/12/2011

CQC: _____ Date: 10/14/11

TQA: _____ Date: 10-13-11

acknowledged

OU1 Design Change and Modification Sheet: Change/Modification # 008

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: _____

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Per the City's request, the large conifers between points 614 and 480 on sheet C4 will be left in place. The trees were not identified on the design plans. The parking area along the western perimeter of the site will be adjusted to accommodate the trees.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: _____ Date: 10/12/11

City of Libby: Jim Hammer Date: 10/12/2011

QQC: _____ Date: 10/14/11

TQA: _____ Date: 10-13-11

Acknowledged

OU1 Design Change and Modification Sheet: Change/Modification # 009

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/7/11

Date Executed: 10/7/11

Property ID: _____

Operable Unit 1 (Area 1)

Design Change / Modification Description:

During the staking of the elevations of the drainage swales, an error was encountered on the design elevations. Surveyor's reference Point 2927 was marked for fill to an elevation of 2602.25. Point 2928 was marked for fill to an elevation of 2602.25. The elevations were adjusted to reflect the surrounding grade and to maintain positive drainage toward the rock trench. Both points were modified to an elevation of 2062.25.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: _____

Date: 10/12/11

City of Libby: _____

Date: 10/12/2011

CQC: _____

Date: 10/14/11

TQA: _____

Date: 10-13-11

acknowledged

OU1 Design Change and Modification Sheet: Change/Modification # 010

This form is used to document changes and modification to the approved plans.

This form will be kept with the official Quality Control Site Plan.

Date Initiated: 10/8/11

Date Executed: 10/10/11

Property ID: _____ Operable Unit 1 (Area 1)

Design Change / Modification Description:

Per discussions with the Libby City representative, it was determined that the cottonwood trees in the SW corner of Area 1 were to be removed. The soil around the trees was impacted with visibly high vermiculite/tremolite. Due to the proximity of the BNSF ROW, the BNSF POC was contacted and informed of the plan to remove the trees.

Changes marked on Quality Control Plans? Yes _____ No _____

Signatures:

USACE or EPA: _____ Date: 10/12/11

City of Libby: Jim Hammond Date: 10/12/2011

acknowledged CQC: _____ Date: 10/12/11

TQA: _____ Date: 10-15-11